



SEQUENCE LISTING

<110> Michael E. Mendelsohn

<120> METHOD FOR ASSAYING COMPOUNDS AFFECTING
CELL DIVISION

<130> 00398/506001

<140> 09/352,570

<141> 1999-07-13

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 618

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)...(618)

<400> 1

atg	gcg	ctg	cag	ctc	tcc	cgg	gag	cag	gga	atc	acc	ctg	cgc	ggg	agc	48
Met	Ala	Leu	Gln	Leu	Ser	Arg	Glu	Gln	Gly	Ile	Thr	Leu	Arg	Gly	Ser	
1				5					10					15		

gcc	gaa	atc	gtg	gcc	gag	ttc	ttc	tca	ttc	ggc	atc	aac	agc	att	tta	96
Ala	Glu	Ile	Val	Ala	Glu	Phe	Phe	Ser	Phe	Gly	Ile	Asn	Ser	Ile	Leu	
			20					25					30			

tat	cag	cgt	ggc	ata	tat	cca	tct	gaa	acc	ttt	act	cga	gtg	cag	aaa	144
Tyr	Gln	Arg	Gly	Ile	Tyr	Pro	Ser	Glu	Thr	Phe	Thr	Arg	Val	Gln	Lys	
		35					40					45				

tac	gga	ctc	acc	ttg	ctt	gta	act	act	gat	ctt	gag	ctc	ata	aaa	tac	192
Tyr	Gly	Leu	Thr	Leu	Leu	Val	Thr	Thr	Asp	Leu	Glu	Leu	Ile	Lys	Tyr	
		50				55					60					

cta	aat	aat	gtg	gtg	gaa	caa	ctg	aaa	gat	tgg	tta	tac	aag	tgt	tca	240
Leu	Asn	Asn	Val	Val	Glu	Gln	Leu	Lys	Asp	Trp	Leu	Tyr	Lys	Cys	Ser	
	65					70				75					80	

gtt	cag	aaa	ctg	gtt	gta	gtt	atc	tca	aat	att	gaa	agt	ggg	gag	gtc	288
Val	Gln	Lys	Leu	Val	Val	Ile	Ser	Asn	Ile	Glu	Ser	Gly	Glu	Val		
				85				90					95			

RECEIVED

NOV 16 2000

TECH. CENTER 600/2500

RECEIVED

NOV 15 2000

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ctg gaa aga tgg cag ttt gat att gag tgt gac aag act gca aaa gat 336
 Leu Glu Arg Trp Gln Phe Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp
 100 105 110

gac agt gca ccc aga gaa aag tct cag aaa gct atc cag gat gaa atc 384
 Asp Ser Ala Pro Arg Glu Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile
 115 120 125

cgt tca gtg atc aga cag atc aca gct acg gtg aca ttt ctg cca ctg 432
 Arg Ser Val Ile Arg Gln Ile Thr Ala Thr Val Thr Phe Leu Pro Leu
 130 135 140

ttg gaa gtt tct tgt tca ttt gat ctg ctg att tat aca gac aaa gat 480
 Leu Glu Val Ser Cys Ser Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp
 145 150 155 160

ttg gtt gta cct gaa aaa tgg gaa gag tgc gga cca cag ttt att acc 528
 Leu Val Val Pro Glu Lys Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr
 165 170 175

aat tct gag gaa gtg cgc ctt cgt tca ttt act act aca atc cac aaa 576
 Asn Ser Glu Glu Val Arg Leu Arg Ser Phe Thr Thr Thr Ile His Lys
 180 185 190

gta aat agc atg gtg gcc tac aaa att cct gtc aat gac tga 618
 Val Asn Ser Met Val Ala Tyr Lys Ile Pro Val Asn Asp *
 195 200 205

<210> 2
 <211> 199
 <212> PRT
 <213> Homo sapiens

<400> 2
 Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1 5 10 15
 Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
 20 25 30
 Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
 35 40 45
 Val Thr Thr Asp Leu Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Glu
 50 55 60
 Gln Leu Lys Asp Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
 65 70 75 80
 Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
 85 90 95
 Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
 100 105 110

Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln
 115 120 125
 Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser
 130 135 140
 Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys
 145 150 155 160
 Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg
 165 170 175
 Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala
 180 185 190
 Tyr Lys Ile Pro Val Asn Asp
 195

<210> 3
 <211> 600
 <212> DNA
 <213> Ovis aries

<220>
 <221> CDS
 <222> (1)...(600)

<400> 3
 cgg gag caa ggc atc acc ttg cgc ggg agc gcc gag atc gtg gcc gag 48
 Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu
 1 5 10 15

 ttc ttc tca ttt ggt atc aac agt att tta tat cag cgt ggc ata tat 96
 Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr
 20 25 30

 cca tcg gaa acc ttt act cga gtg cag aaa tat gga ctc acc ttg ctt 144
 Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu
 35 40 45

 gta act act gat cct gag ctc ata aaa tac cta aat aat gtg gtg gat 192
 Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp
 50 55 60

 caa cta aaa gaa tgg tta tac aag tgt tca gtt cag aaa ctg gtg gta 240
 Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val
 65 70 75 80

 gtc atc tca aat att gaa agt gga gag gtc ctt gaa aga tgg cag ttt 288
 Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe
 85 90 95

 gat att gag tgt gac aag act gca aaa gat gac agt gca ccc aga gaa 336
 Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu
 100 105 110

aag tct cag aaa gct atc caa gat gaa atc cgt tca gtg atc aga cag	384
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln	
115 120 125	
atc aca gct aca gta aca ttt ctg cca ctg ttg gaa gtt tct tgt tca	432
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser	
130 135 140	
ttt gat ctc ctc att tat aca gac aaa gat ctg gtt gta cct gag aaa	480
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys	
145 150 155 160	
tgg gaa gag tcc gga cca cag ttc att acc aat tct gaa gaa gtt cgt	528
Trp Glu Glu Ser Gly Pro Gln Phe Ile Thr Asn Ser Glu Glu Val Arg	
165 170 175	
ctt cgt tca ttc act act aca att cac aaa gta aat agc atg gta gcc	576
Leu Arg Ser Phe Thr Thr Thr Ile His Lys Val Asn Ser Met Val Ala	
180 185 190	
tac aaa att cct gtc cat gac tga	600
Tyr Lys Ile Pro Val His Asp *	
195	

<210> 4
 <211> 199
 <212> PRT
 <213> Ovis aries

<400> 4

Arg Glu Gln Gly Ile Thr Leu Arg Gly Ser Ala Glu Ile Val Ala Glu	
1 5 10 15	
Phe Phe Ser Phe Gly Ile Asn Ser Ile Leu Tyr Gln Arg Gly Ile Tyr	
20 25 30	
Pro Ser Glu Thr Phe Thr Arg Val Gln Lys Tyr Gly Leu Thr Leu Leu	
35 40 45	
Val Thr Thr Asp Pro Glu Leu Ile Lys Tyr Leu Asn Asn Val Val Asp	
50 55 60	
Gln Leu Lys Glu Trp Leu Tyr Lys Cys Ser Val Gln Lys Leu Val Val	
65 70 75 80	
Val Ile Ser Asn Ile Glu Ser Gly Glu Val Leu Glu Arg Trp Gln Phe	
85 90 95	
Asp Ile Glu Cys Asp Lys Thr Ala Lys Asp Asp Ser Ala Pro Arg Glu	
100 105 110	
Lys Ser Gln Lys Ala Ile Gln Asp Glu Ile Arg Ser Val Ile Arg Gln	
115 120 125	
Ile Thr Ala Thr Val Thr Phe Leu Pro Leu Leu Glu Val Ser Cys Ser	
130 135 140	
Phe Asp Leu Leu Ile Tyr Thr Asp Lys Asp Leu Val Val Pro Glu Lys	

145					150					155				160
Trp	Glu	Glu	Ser	Gly	Pro	Gln	Phe	Ile	Thr	Asn	Ser	Glu	Glu	Val
				165					170				175	
Leu	Arg	Ser	Phe	Thr	Thr	Thr	Ile	His	Lys	Val	Asn	Ser	Met	Val
			180					185					190	
Tyr	Lys	Ile	Pro	Val	His	Asp								
		195												